

[ABSTRACT]

[Object] To provide a piezoelectric oscillator for suppressing a vibrator current easily with a simple circuit configuration.

[Solution] A piezoelectric oscillation circuit has a series circuit composed of a capacitor  $C_{be}$  as a part of a load capacitance and a capacitor  $C_e$  inserted and connected between a base of an oscillation transistor TR1 and the ground, and has an emitter resistor  $R_e$  connected to a connection midpoint A of the series circuit and an emitter of the oscillation transistor TR1. Further, a base bias circuit composed of a resistor  $R_{B1}$  and a resistor  $R_{B2}$  is connected to a base of the oscillation transistor TR1, has a piezoelectric element Xtal and a capacitor C1 inserted and connected in series between the base of the oscillation transistor TR1 and the ground, and further has a resistor  $R_c$  connected to a collector of the oscillation transistor TR1 together with the power supply voltage  $V_{cc}$  line, and has a capacitor  $C_{ce}$  connected between the collector and the emitter.